What is claimed is:

- 1. A phase-locked loop structure providing local oscillator signals, said phase-locked loop structure comprising:
 - a first phase-locked loop including a first voltage controlled oscillator;
 - a second phase-locked loop including a second voltage controlled oscillator;
 - a first local oscillator output for providing a first local oscillator signal, wherein a signal output by said first voltage controlled oscillator is forwarded to said first local oscillator output;
 - a second local oscillator output for providing a second local oscillator signal; and
 - a selection component for forwarding a signal output by said first voltage controlled oscillator or a signal output by said second voltage controlled oscillator to said second local oscillator output.

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A phase-locked loop structure according to claim 1, 2. wherein said first voltage controlled oscillator is designed to generate signals in a first frequency band, wherein said second voltage controlled oscillator is designed to generate signals in a 25 second frequency band, and wherein said phase-locked loop structure further comprises a control unit applying a control signal to said selection component which causes said selection component to forward a signal output by said first voltage controlled 30 oscillator to said second local oscillator output whenever a second local oscillator signal having a frequency selected from said first frequency band is required and applying a control signal to said

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      selection component which causes gaid selection
        selection component which causes said selection by said second component to forward a signal output by component to
          Toltage controlled oscillator to said second local
             voitage controlled whenever a second local oscillator oscillator output whenever a
                Signal having a frequency selected from said second
                      A Phase-locked loop structure according to claim 1,
                           A phase locked loop structure according to claim is
wherein said first voltage controlled oscillator;
wherein
                    frequency band is required.
                             wherein salu lies vortage controlled of first quality designed to generate signals having a first quality
                               aesigned to generate signals having a lirst quality of the said second voltage controlled oscillator is and said second voltage.
                                  and said second voltage controlled obcillator quality, designed to generate signals having a second quality
                                     westyned to yenerate stynate higher than said second higher than said first quality being higher than
                                       sala rirst quality peing nigner than sala second structure quality and wherein said phase-locked loop structure
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                                          quality, and wherein same house a control unit applying a control further
                                            rurther comprises a control unit applying a control which causes said signal to said selection component which causes
                                                selection component to forward a signal output by
                                                  serection component to said oscillator to said first voltage controlled oscillator to said.
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                                                    second local oscillator output whenever a second
                                                      second local oscillator signal having said first quality is local oscillator signal having said first quality is
                                                         required and applying a control signal to said
                                                            selection component which causes said selection
                                                              component to forward a signal output by said second
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                                                                Toltage controlled oscillator to said second local
                                                                    Voltage controlled whenever a second local oscillator oscillator oscillator.
                                                                      signal having said second quality is required.
                                                                           A phase-locked loop structure according to claim 1,
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                                                                                           at least one control unit, which at least one
                                                                                      control unit applies control said selection component selection component selection component
                                                                                   control unit applies control signals to said
                                                                                        selection component forwarding a signal output by to alternate between forwarding
                                                                                           to alternate petween torwardled oscillator and a signal signal alternate petween controlled oscillator and a signal signal alternate petween controlled oscillator and a signal s
                                                 25
                                                                               further comprising:
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  output by said second voltage controlled oscillator
    Output by said second local oscillator output; and which at to said second local oscillator output;
     least one control unit sets a required frequency of
      the signal output by a respective voltage controlled
        oscillator before a control signal is provided to
         said selection component to switch to forwarding a
          sald selection component to switch to Lorwarding a controlled signal output by said respective voltage controlled
            oscillator to said second local oscillator output.
              A phase-locked loop structure according to claim 1
               A phase-locked roop scructure according to claim in which control unit which control unit further comprising a control unit.
                 Ewitches off at least one of said first voltage
                  controlled oscillator and said second voltage
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                   controlled oscillator while said first voltage
                      controlled oscillator is not required for providing a
                     controlled oscillator or said second voltage
                       controlled obclillator is not required for providing controlled one of said first local oscillator output,
                        signal to one or said local oscillator output and while the and said second local oscillator
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                          and second toward output and white of frequencies of signals currently generated by said
                           requencies of signals currently generated by said second first voltage controlled oscillator and said second
                            Voltage controlled oscillator are closer to each
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                              other than a predetermined difference.
                                A communication unit comprising a transmitter chain
                                 A communication unit complibiting a transmittee charm requiring a local oscillator signal for processing
                                   requiring a local oscillator signal lor processing requiring signals for transmission, a
                                    a local oscillator signal for processing received
                                     a local oscillator signal for processing received a local oscillator signal locked loop structure providing
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                                      signals and a phase-locked loop
local oscillator signals:
                                              a first phase-locked loop including a first
                                                 a second phase-locked loop including a second
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                                        structure comprising:
                                           Voltage controlled oscillator;
                                             voltage controlled oscillator;
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a first local oscillator output for providing a first local oscillator signal, wherein a signal output by said first voltage controlled oscillator is forwarded to said first local oscillator output;

a second local oscillator output for providing a second local oscillator signal; and

a selection component for forwarding a signal output by said first voltage controlled oscillator or a signal output by said second voltage controlled oscillator to said second local oscillator output;

wherein one of said first local oscillator output and said second local oscillator output provides a local oscillator signal to said transmitter chain and wherein the respective other one of said first local oscillator output and said second local oscillator output provides a local oscillator signal to said receiver chain.

7. A method of providing a first local oscillator signal20 and a second local oscillator signal, said method comprising:

in case said first local oscillator signal is required, using a signal provided by a first voltage controlled oscillator of a first phase locked loop as said first local oscillator signal; and

in case said second local oscillator signal is required, selecting a signal provided by one of said first voltage controlled oscillator and a second voltage controlled oscillator of a second phase locked loop for use as said second local oscillator signal.

8. A method according to claim 7, wherein said first voltage controlled oscillator generates signals in a

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first frequency band, wherein said second voltage controlled oscillator generates signals in a second frequency band, wherein a signal output by said first voltage controlled oscillator is used as said second local oscillator signal whenever a second local oscillator signal having a frequency selected from said first frequency band is required and wherein a signal output by said second voltage controlled oscillator is used as said second local signal whenever a second local oscillator signal having a frequency selected from said second frequency band is required.

- A method according to claim 7, wherein said first 9. 15 voltage controlled oscillator generates signals having a first quality and said second voltage controlled oscillator generates signals having a second quality, said first quality being higher than said second quality, wherein a signal output by said first voltage controlled oscillator is used as said 20 second local oscillator signal whenever a second local oscillator signal having said first quality is required, and wherein a signal output by said second voltage controlled oscillator is used as said second local oscillator signal whenever a second local 25 oscillator signal having said second quality is required.
- 10. A method according to claim 7, wherein a signal

 output by said first voltage controlled oscillator

 and a signal output by said second voltage controlled

 oscillator are used alternately as said second local

 oscillator signal, said method further comprising

 setting a required frequency of a signal output by a

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respective one of said voltage controlled oscillators before a signal output by said voltage controlled oscillator is used as said second local oscillator signal.

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11. A method according to claim 7, further comprising switching off at least one of said first voltage controlled oscillator and said second voltage controlled oscillator while a signal generated by said first voltage controlled oscillator or a signal generated by said second voltage controlled oscillator, respectively, is not to be used as one of said first local oscillator signal and said second local oscillator signal, and while the frequencies of signals currently generated by said first voltage controlled oscillator and said second voltage controlled oscillator are closer to each other than a predetermined difference.

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